

# TERMINAL GROINS & JETTIES FOR SHORELINE EROSION AND NAVIGATION

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# Definitions

**JETTY:** A structure used to stabilize a navigation channel. Usually found in pairs on each side of an inlet.

**GROIN:** A structure perpendicular to the shoreline used for shoreline stabilization. Used as single or multiple structures

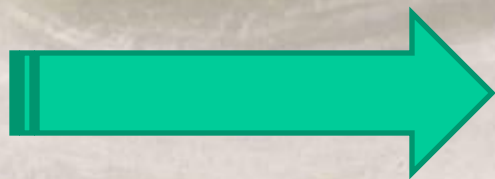
**TERMINAL GROIN:** A groin located at the end of a sand transport system, typically an inlet. Usually a single structure.

# Size

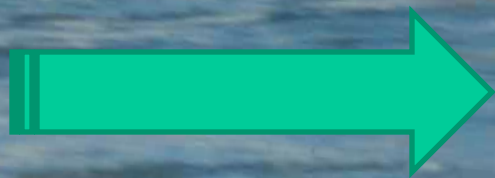
**JETTY:** Large, in some cases over a mile in length.

**TERMINAL GROIN:** Much smaller than a jetty, ~5 times smaller.

Structure sizes vary with the size of the inlet.



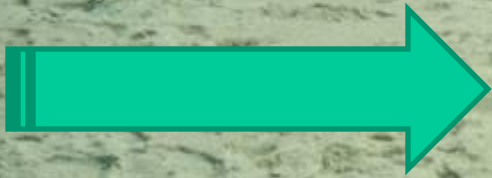
**LONGSHORE CURRENT**



**LONGSHORE CURRENT**

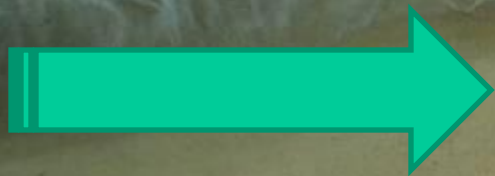


# GROINS & JETTIES: SAND TRAPS



**LONGSHORE CURRENT**





**CAPE  
HATTERAS  
LIGHTHOUSE**





**BUXTON**





**GROIN FIELD**



# MIAMI BEACH

c. 1975





# JETTIES: OCEAN CITY, MD

ASSATEAGUE  
ISLAND





**WRIGHTSVILLE BEACH  
MASONBORO INLET**



**WEIR JETTY**

# SAND BYPASSING







**TERMINAL GROIN:  
BOCA GRANDE, FL**







# OREGON INLET TERMINAL GROIN



1984





2013



2014



**FORT MACON**

**BEAUFORT**

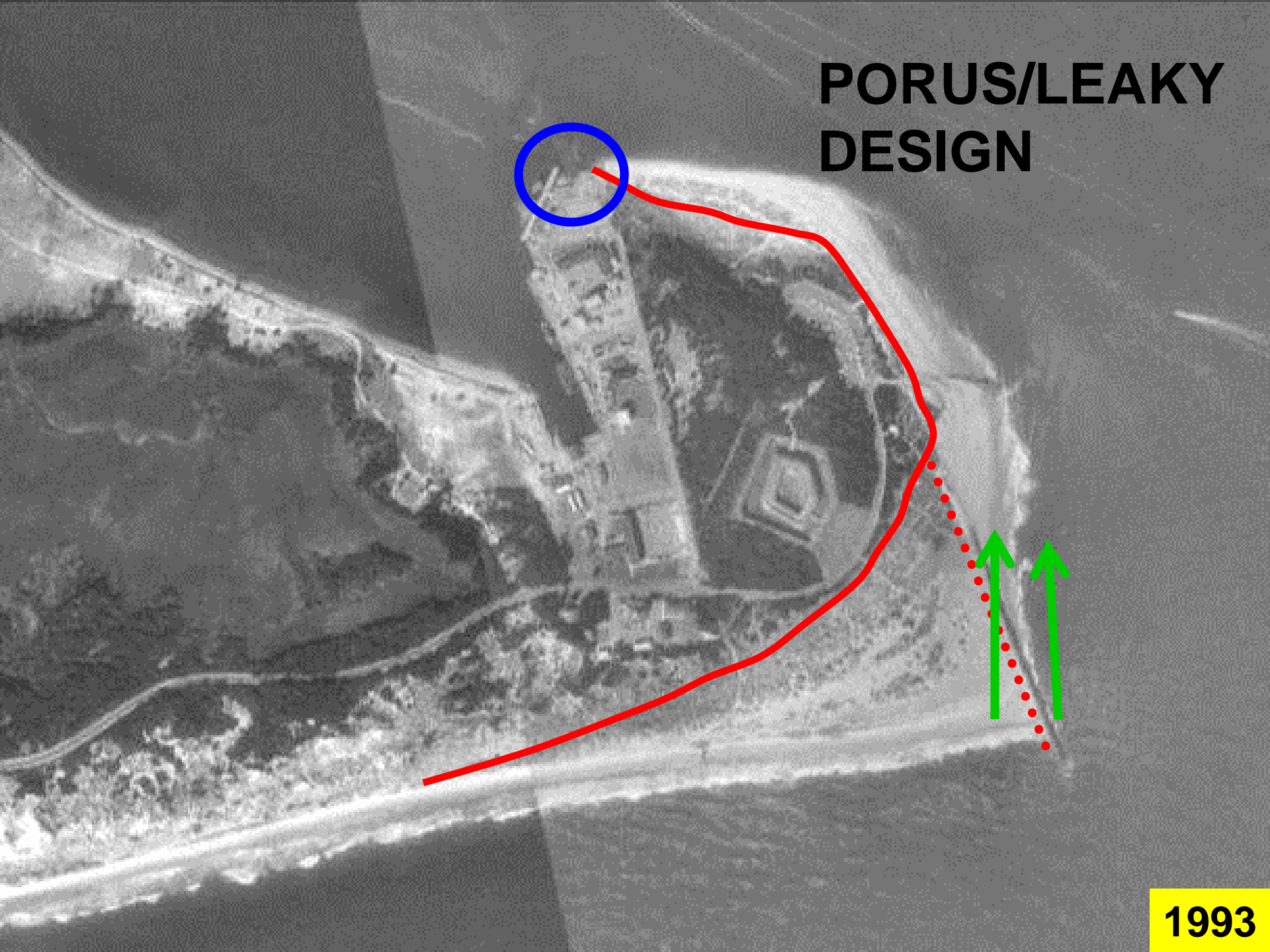
**ATLANTIC BEACH**

**2002**





**PORUS/LEAKY  
DESIGN**



**1993**



1996



2006



8/2016



E Fort Macon Rd

Fort Macon Rd

Fort Macon

2016

**QUESTIONS?**